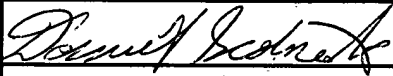
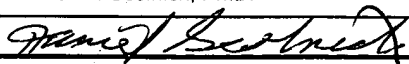


TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	09/930,312	
	Filing Date	August 15, 2001	
	First Named Inventor	Peter Lind	
	Art Unit	1646	
	Examiner Name	Dong Jiang	
Total Number of Pages in This Submission	27	Attorney Docket Number	PHRM0026-100

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Copy of IDS dated September 21, 2001 and listed references
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Daniel M. Scolnick, Ph.D. Reg. No.: 52,201
Signature	
Date	December 2, 2003

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POCKET NO: PHRM0026-100/00329.US1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Peter Lind

Serial No.: 09/930,312

Group Art Unit: 1646

Filed: August 15, 2001

Examiner: Dong Jiang

Title: NOVEL G PROTEIN-COUPLED RECEPTORS

DATE OF DEPOSIT: December 2, 2003

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Dear Sir:

COMMUNICATION

In the Office Action of July 17, 2003, the Office indicated that the references listed on the PTO-1449, (filed September 18, 2001) were not present in the current application file and that copies of the PTO-1449 filed on September 18, 2001, and the references cited therein were apparently misplaced. As a courtesy to the Office, Applicant attaches hereto replacement copies of the September 18, 2001 PTO-1449 and

references cited therein.. Applicant notes that the Examiner will “consider them as though they were submitted with the IDS in paper No. 4” (Office Action, page 2).

Conclusion

Applicant invites the Examiner to contact the undersigned at (215) 665-6928 to clarify any unresolved issues raised by this response.

Respectfully submitted,



Daniel M. Scolnick, Ph.D.

Reg. No. 52,201

Date: December 2, 2003

COZEN O'CONNOR, P.C.

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Attachments: PTO-1449 (filed September 18, 2001)

Copies of References listed on PTO-1449

Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
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U.S. Department of Commerce
Patent and Trademark Office

Docket No.

00329.US1/PHRM-0366

Serial No.

09/930,312

Applicant

Peter Lind et al.

Filing Date

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✓	AA	Akane, A., et al., "direct dideoxy sequencing of genomic DNA by ligation-mediated PCR," <i>Biotechniques</i> , 1994, 16(2), 238-241 (page 239 - advertisement)
✓	AB	Altschul, S. F., et al., "Basic local alignment search tool," <i>J. Mol. Biol.</i> , 1990, 215, 403-410
✓	AC	American Veterinary Medical Association, <i>Report of the American Veterinary Medical Assoc.</i> , Panel on Euthanasia, <i>Journal of American Veterinary Medical Assoc.</i> , 1993, 202, 229-249
✓	AD	Anderson, W.F., "Human gene therapy," <i>Nature</i> , Supplement to Vol. 392(6679), 1998, 25-30
✓	AE	Anderson, W. F., "Human gene therapy," <i>Science</i> , 1992, 256, 808-813
✓	AF	Aujame, L., et al., "High affinity human antibodies by phage display," <i>Human Antibodies</i> , 1997, 8(4), 155-168
✓	AG	Aukrust, P., et al., "Enhanced levels of soluble and membrane-bound CD40 ligand in patients with unstable angina; Possible Reflection of T lymphocyte and platelet involvement in the pathogenesis of acute coronary syndromes," <i>Circulation</i> , 1999, 100, 614-620
*	AH	Ausubel, et al. (Eds.), <i>Current Protocols in Molecular Biology</i> , New York, 1987-1999, John Wiley & Sons, Inc.
	AI	Ausubel, et al. (Eds.), "Chapter 6, Screening of recombinant DNA libraries," <i>Current Protocols in Molecular Biology</i> , 1994, John Wiley & Sons, 6.0.1-6.4.10
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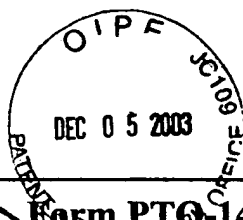
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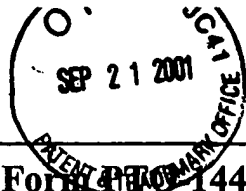
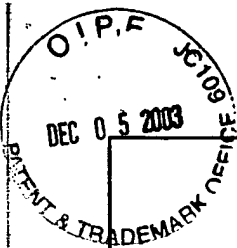
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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. 00329.US1/PHRM-0366	Serial No. 09/930,312
		Applicant Peter Lind et al.	
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	AK	Baindur, N., et al., "Selective fluorescent ligands for pharmacological receptors," <i>Drug Dev. Res.</i> , 1994, 33, 373-398	
	AL	Benoist C., et al., "In vivo sequence requirements of the SV40 early promoter region," <i>Nature</i> , 1981, 290, 304-310	
	AM	Berger, et al., <i>Guide to Molecular Cloning Techniques</i> , Methods in Enzymology 152, 1987, Academic Press, Inc., San Diego, CA	
	AN	Birney, E., et al., "PairWise and SearchWise: finding the optimal alignment in a simultaneous comparison of a protein profile against all DNA translation frames," <i>Nucleic Acids Res.</i> , 1996, 24(14), 2730-2739	
	AO	Bohm, S. K., et al., "Regulatory mechanisms that modulate signalling by G-protein-coupled receptors," <i>Biochem. J.</i> , 1997, 322, 1-18	
	AP	Bossé, R., et al., "Development of nonseparation binding and functional assays for G protein-coupled receptors for high throughput screening: Pharmacological characterization of the immobilized CCR5 receptor on FlashPlate®," <i>J. Biomolecular Screening</i> , 1998, 3(4), 285-292	
	AQ	Boulton, T. G., et al., "ERKs: A family of protein-serine/threonine kinases that are activated and tyrosine phosphorylated in response to insulin and NGF," <i>Cell</i> , 1991, 65, 663-675	
	AR	Breedon, L., et al., "Regulation of the yeast HO gene," <i>Cold Spring Harb. Symp. Quant. Biol.</i> , 1985, Vol. L, <i>Molecular Biology of Development</i> , 643-650	
	AS	Broeck, V., "G-protein-coupled receptors in insect cells," <i>Int. Rev. Cytology</i> , 1996, 164, 189-268	
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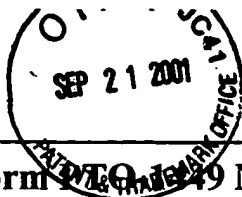
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AV	Cane, D. E., et al., "Harnessing the Biosynthetic Code: Combinations, Permutations, and Mutations," <i>Science</i> , Oct. 1998, 282, 63-68
AW	Capecchi, M. R., "Altering the genome by homologous recombination," <i>Science</i> , 1989, 244, 1288-1292
AX	Chambers, R. C., et al., "Thrombin stimulates fibroblast procollagen production via proteolytic activation of protease-activated receptor 1," <i>Biochem J.</i> , 1998, 333, 121-127
AY	Choo, Y., et al., "Promoter-specific activation of gene expression directed by bacteriophage-selected zinc fingers," <i>J. Mol. Biol.</i> , 1997, 273, 525-532
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BA	Cirino, G., et al., "Thrombin functions as an inflammatory mediator through activation of its receptor," <i>J. Exp. Med.</i> , 1996, 183, 821-827
BB	Cobbold, et al., "Aequorin measurements of cytoplasmic free calcium," In: McCormack J.G., et al. (Eds.), <i>Cellular Calcium: A Practical Approach</i> , 1991, Oxford, IRL Press
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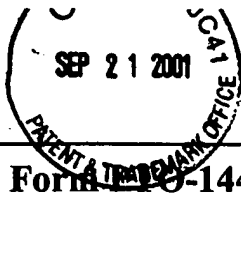
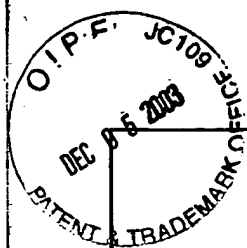
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		Applicant Peter Lind et al.	
		Filing Date August 15, 2001	Group Not Yet Assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	BE	Cosman, D., et al., "Cloning sequence and expression of human interleukin-2 receptor," <i>Nature</i> , 1984, 312, 768	
*	BF	<i>Current Protocols in Molecular Biology</i> , 1999, John Wiley & Sons, New York	
	BG	Donovan, F. M., et al., "Thrombin induces apoptosis in cultured neurons and astrocytes via a pathway requiring tyrosin kinase and RhoA activities," <i>J. Neurosci</i> , 1997, 17(14), 5316-5326	
	BH	Dooley, C. T., et al., "Binding and in vitro activities of peptides with high affinity for the nociceptin/orphanin FQ receptor, ORL1," <i>J. Pharmacology and Experimental Therapeutics</i> , 1997, 283(2), 735-741	
	BI	Douglas, A. M., et al., "Direct sequencing of double-stranded PCR products incorporating a chemiluminescent detection procedure," <i>Biotechniques</i> , 1993, 14, 824-828	
	BJ	Drmanac, R., et al., "DNA Sequence Determination by Hybridization A Strategy for Efficient Large-Scale Sequencing," <i>Science</i> , 1993, 260, 1649-1652	
	BK	Drmanac, S., et al., "Accurate sequencing by hybridization for DNA diagnostics and individual genomics," <i>Nature Biotechnology</i> , 1998, 16, 54-58	
	BL	Dunlop, J., et al., "Characterization of 5-HT _{1A} receptor functional coupling in cells expressing the human 5-HT _{1A} receptor as assessed with the cytosensor microphysiometer," <i>J. Pharmacological and Toxicological Methods</i> , 1998, 40(1), 47-55	
*	BM	Eisenthal, R., et al. (Eds.) In Enzyme Assays, <i>A Practical Approach</i> , 1992, Oxford University Press	
	BN	Fields, S., et al., "A novel genetic system to detect protein-protein interactions," <i>Nature</i> , 1989, 340, 245-246	
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BO	Fields, S., et al., "The two-hybrid system: an assay for protein-protein interactions," <i>Trends in Genetics</i> , 1994, 10(8), 286-292
BP	Fischer, S. G., et al., "DNA fragments differing by single base-pair substitutions are separated in denaturing gradient gels: Correspondence with melting theory," <i>Proc. Natl. Acad. Sci. USA</i> , 1983, 80, 1579-1583
BQ	Foote, J., et al., Antibody framework residues affecting the conformation of the hypervariable loops," <i>J. Mol. Biol.</i> , 1992, 224, 487-499
BR	Frandsen, E. K., et al., "A simple ultrasensitive method for the assay of cyclic AMP and GMP in tissues," <i>Life Sciences</i> , 1976, 18, 529-542
BS	Friedmann, T., "Progress toward human gene therapy," <i>Science</i> , 1989, 244, 1275-1281
BT	George, S. E., et al., "Evaluation of a CRE-directed luciferase reporter gene assay as an alternative to measuring cAMP accumulation," <i>J. Biomolecular Screening</i> , 1997, 2(4), 235-240
BU	Gerhardt, C. C., et al., "Functional characteristics of heterologously expressed 5-HT receptors," <i>Eur. J. Pharmacology</i> , 1997, 334, 1-23
BV	Gill, J. S., et al., "Thrombin induced inhibition of neurite outgrowth from dorsal root ganglion neurons," <i>Brain Res.</i> , 1998, 797, 321-327
BW	Grabham, P., et al., Thrombin receptor activation stimulates astrocyte proliferation and reversal of stellation by distinct pathways: involvement of tyrosine phosphorylation," <i>J. Neurochem</i> , 1995, 64, 583-591
BX	Greisman, H. A., et al., "A general strategy for selecting high-affinity zinc finger proteins for diverse DNA target sites," <i>Science</i> , 1997, 275, 657-661

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	BY	Guan, X. M., et al., "Enhancement of membrane insertion and function in a type IIIb membrane protein following introduction of a cleavable signal peptide," <i>J. Biol. Chem.</i> , 1992, 267, 21995-21998
*	BZ	Harlow, et al. (Eds.), <i>Antibodies A Laboratory Manual</i> , 1988, Cold Spring Harbor Laboratory; Cold Spring Harbor, New York
	CA	Hauck, R. W., et al., "α-thrombin stimulates contraction of human bronchial rings by activation of protease-activated receptors," <i>Am J. Physiol</i> , 1999, 277, L22-L29
*	CB	Haugland, <i>Handbook of Fluorescent probes and Research Chemicals</i> , 6 th Ed., 1996, Eugene OR: Molecular Probes
*	CC	Hendrix, R.W., Ed., <i>Lambda II</i> , 1980, Cold Spring Harbor Press, Cold Spring Harbor, NY
	CD	Henikoff, S., et al., "Amino acid substitution matrices from protein blocks," <i>Proc. Natl. Acad. Sci. USA</i> , 1992, 89, 10915-10919
*	CE	Hershey, A. D., (Ed.), <i>The Bacteriophage Lambda</i> , 1973, Cold Spring Harbor Press, Cold Spring Harbor, New York
	CF	Hill, D. C., "Trends in development of high-throughput screening technologies for rapid discovery of novel drugs," <i>Cur. Opinion Drug Disc. Dev.</i> , 1998, 1(1), 92-97
	CG	Hinuma, S., et al., "A prolactin-releasing peptide in the brain," <i>Nature</i> , 1998, 393, 272-276
	CH	Hodgson, J., "Receptor screening and the search for new pharmaceuticals," <i>Bio/Technology</i> , 1992, 10, 973-980

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CJ	Jayawickreme, C. K., et al., "Gene expression systems in the development of high-throughput screens, <i>Current Opinion in Biotechnology</i> , 1997, 8, 629-634
CK	Jones, P. T., et al., "Replacing the complementarity-determining regions in a human antibody with those from a mouse," <i>Nature</i> , 1986, 321, 522-525
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CM	Karlin, S., et al., "Applications and statistics for multiple high-scoring segments in molecular sequences," <i>Proc. Natl. Acad. Sci. USA</i> , 1993, 90, 5873-5787
CN	Kettleborough, C. A., et al., "Humanization of a mouse monoclonal antibody by CDR-grafting: the importance of framework residues on loop conformation," <i>Protein Engin.</i> , 1991, 4(7), 773-783
CO	Kieleczawa, J., et al., "DNA sequencing by primer walking with strings of contiguous hexamers," <i>Science</i> , 1992, 258, 1787-1791
CP	Kim, J., et al., "Design of TATA box-binding protein/zinc finger fusions for targeted regulation of gene expression," <i>Proc. Natl. Acad. Sci. USA</i> , 1997, 94, 3616-3620
CQ	Kobilka, B. K., "Amino and carboxyl terminal modifications to facilitate the production and purification of a G protein-coupled receptor," <i>Analytical Biochemistry</i> , 1995, 231(1), 269-271
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Serial No.

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CT	Lajiness et al., "D2 dopamine receptor stimulation of mitogenesis in transfected chinese hamster ovary cells: relationship to dopamine stimulation of tyrosine phosphorylations", <i>J. Pharm. Exp. Ther.</i> , 1993, 267(3), 1573-1581
CU	Lehninger, "Chapter 4, The amino acid building blocks of proteins," <i>Biochemistry</i> , 2 nd Ed., 1975, Worth Publishers, Inc., New York, New York, 71-77
CV	Lin, A. H., et al., "The oxazolidinone eperezolid binds to the 50S ribosomal subunit and competes with binding of chloramphenicol and lincomycin," <i>Antimicrobial Agents and Chemotherapy</i> , 1997, 41(10), 2127-2131
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CZ	Maxam, A. M., et al., "Sequencing end-labeled DNA with bse-specific chemical cleavages", <i>Meth. Enzymol.</i> , 1977, Vol. 65, 499-560
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DB	Miller, A. D., "Human gene therapy comes of age", <i>Nature</i> , 1992, Vol. 357, pp. 455-460

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Serial No.

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	DD	Morrison, et al., "Genetically engineered antibody molecules," Dixon, F.J., et al. (Eds.), <i>Adv. Immunol.</i> , 1989, 44, 65-92
	DE	Murphy, A. J., et al., "From DNA to drugs: the orphan G-protein coupled receptors," <i>Cur. Opinion Drug Disc. Dev.</i> , 1998, 1(2), 192-199
	DF	Myers, P., "Will combinatorial chemistry deliver real medicines," <i>Curr. Opin. Biotechnology</i> , 1997, 8, 701-707
	DG	Myers, R. M., et al., "Detection of single base substitutions by ribonuclease cleavage at mismatches in RNA: DNA duplexes", <i>Science</i> , 1985, Vol. 230, 1242-1246
	DH	Nakayama, G. R., "Microplate assays for high-throughput screening," <i>Cur. Opinion Drug Disc. Dev.</i> , 1998, 1(1), 85-91
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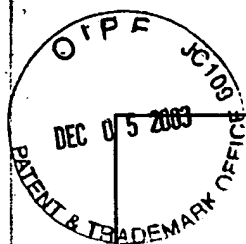
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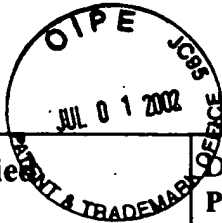
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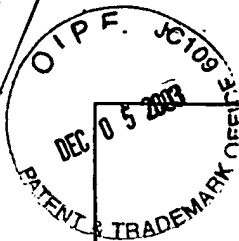
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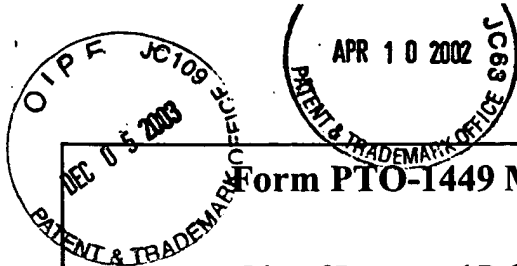
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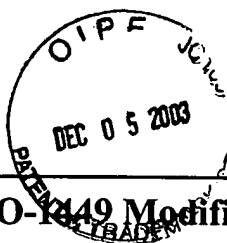
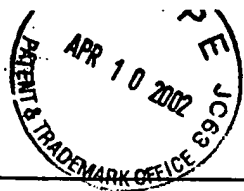
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